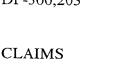
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- 1. An alternating current (AC) generator comprising a stator and a rotor, said rotor comprising a plurality of pole pairs, said stator comprising a first winding wound in a full pitch pattern and a second winding wound in a short pitch pattern.
- 2. The generator of claim 1 wherein said first and second windings are three-phase windings.
- 3. The generator of claim 1 wherein said first and second windings are physically offset one relative to another.
- 4. The generator of claim 3 wherein said first winding is wound in one of a delta and a wye configuration and said second winding is wound in the other one of said delta and wye configuration.
- 5. The generator of claim 4 wherein said full pitch pattern is wound in said wye configuration and said short pitch pattern is wound in said delta configuration.

A stator for an alternating current generator, said generator having a rotor with poles, comprising:

a substantially annular body portion;

- a plurality of teeth extending radially inwardly from said annular body portion;
- a plurality of slots defined between said teeth;
- at least two windings wound around said teeth and inserted into said slots,
- wherein the number of stator slots is equal to $2 \times n \times p$, where p is the number of electrical phases per winding, and n is the number of rotor pole pairs, and

wherein a first one of said windings being wound in a full pitch pattern and a second one of said windings being wound in a short pitch pattern.

7. The stator of claim 6 wherein said windings are three-phase windings.

- 8. The stator of claim 6 wherein one of said first and second windings is wound in a wye configuration and the other one of said first and second windings is wound in a delta configuration.
- 9. The stator of claim 8 wherein said first and second windings are positionally shifted from each other by an electrical angle of 30 degrees.
- 10. The stator of claim 6 wherein said first and second windings are connected to a rectifier bridge.
- 11. A stator for an alternating current generator comprising at least a pair of multi-phase windings, one of the windings being a wye type winding and the other one of the windings being a delta type winding.
- 12. The stator of claim 11 wherein said windings are connected to the same rectifier bridge.
- 13. The stator of claim 12 wherein one of the windings is a full pitch winding and the other one of the windings is a short pitch winding.
- The stator of claim 11 wherein said windings are offset according to the equation $\frac{90}{p}$ where the offset is in degrees (electrical) and p is the number of electrical phases per winding.
- 15. The stator of claim 14 wherein the offset is 30 degrees (electrical) for a pair of p=3 phase windings.
- 16. The stator of claim 11 comprising $2 \times n \times p$ slots wherein p is the number of electrical phases per winding and n is the number of rotor pole pairs.

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17. The stator of claim 11 further comprising a plurality of teeth defining a plurality of slots.